# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start		Rating **	Α	Issue No.		1	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_MA0	007_01_s _ 201	3_1				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
New O&M manuals were given to the LMA now that construction is complete. The O&M manuals are located at the Sutter Maintenance Yard.							

No Photos

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		cy Supplies &			0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_MA0	007_01_s _ 201	13_3				
		Comn	nent Cod	de			

No Photos

Inspector Comment

Emergency supplies and equipment are stored at the Sutter Maintenance Yard.

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ма	Location *			
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Flood Pre	Flood Preparedness & Training			0		0
item					0		0
DWR ID	DWR_MA0	007_01_s _ 201	3_4				
		Comn	nent Cod	le			
	Inspector Comment						

Sutter Maintenance Yard employees attend the annual Flood Fight

No Photos

Location	
LS: Land Side	N/A: Not Applicable
WS: Water Side	
00 - 0	

class put on by DWR.

\* Location

Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	0.00	Rating **	Α	Issue No.	10			
LM End	11.89	Issue Type +	Ma	Location *	LS			
Category	evee	GPS La	titud	le/Longitude				
Category				Start		End		
Item	Vegetatio		39.31093	88°	39.439672 °			
пеш				-121.63763	34 °	-121.641504°		
DWR ID	DWR_MA0	007_01_s _ 201	9_10					
Comment Code								
V1 : Contro	V1 : Control annual grass and weeds on the levee slopes and							

V1 : Control annual grass and weeds on the levee slopes and easements.

## Inspector Comment

The annual vegetation is well maintained, Spring 2019.



View looking upstream landside at the well maintained vegetation alongside the irrigation ditch, Spring 2019.

LM Start	0.00	Rating **	** A Issue			11		
LM End	11.89	Issue Type +	Ma	Location *		WS		
Category	.evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Vegetatio	n		39.3109	38°	39.439672°		
пеш			-121.6376	34°	-121.641504°			
DWR ID DWR_MA0007_01_s _ 2019_11								

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

The annual vegetation is well maintained, Spring 2019.

## Photo 1 of 1: SP\_2019\_MA0007\_200\_11\_20190409\_00029.jpg



View looking upstream waterside at the well maintained vegetation and re-grading of the levee crown, Spring 2019.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	0.31	Rating **	N	Issue No.	69		
LM End	0.37	Issue Type +	Ma	Location *	WS		
Category	GPS Latitude/Longitude						
Calegory			Start		End		
Item	Trim / Thi	n Trees		39.31499	1°	39.315693°	
пеш				-121.63503	3°	-121.634459 °	
DWR ID DWR_MA0007_01_s _ 2016_69							
Comment Code							

T5: Tree stumps.

Inspector Comment

Several tree stumps at levee toe still exist Fall 2018.



View looking downstream of several tree stumps at the levee toe on the waterside.

LM Start	0.92	Rating **	С	Issue No.	67			
LM End	0.92	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory		Start		End				
Item	Vegetatio	n		39.3231	18 °	39.323118 °		
пеш				-121.63220	)5 °	-121.632205 °		
DWR ID DWR_MA0007_01_s _ 2016_67								
	Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

The black berry bushes are continued to be sprayed and maintained at the levee toe and are over 20 feet from the levee crown, Spring 2019.

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	9		
LM End	1.71	Issue Type +	Ma	Location *	WS		
Category			GPS Latitude/Longitude				
Calegory				Start		End	
2017 USACE Erosion Survey,		39.332000°		39.334240	0		
пеш	DRAFT			-121.633178 °		-121.633908	0
DWR ID DWR_MA0007_01_f _ 2018_9							
Comment Code							

Inspector Comment

2017 Site ID: FHR 47.5 R

Status: Eroding

2017 Field Notes: Vertical face into the levee prism, huge eddy. Site History: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe.

No Photos

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.76	Rating **	М	Issue No.		73
LM End	1.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory						End
Item	DWR UCIP LMA Responsibility			39.33486	8 °	39.334868 °
пеш				-121.63377	3°	-121.633773 °
DWR ID	16926					

# Inspector Comment

Comment Code

FS ID:53950 DS\_ID:16926 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)12/07/2018 Encroachment Owner is Butte Water District c/o Mark Orme. District Manager, 735 Virginia Street, Gridley, CA 95948, 1-530-846-3100. Information obtained from the Levee\_Encroachment\_listing\_11288.pdf obtained from SBFCA which also indicates CVFPB Permit Process New Permit. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP)

08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)

05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends replacing in accordance with title 23.05/07/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana) FIELD\_STRUCT\_DESC: 1 of 2: 60-inch corrugated metal gravity

drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station

# Photo 1 of 3: UCIP\_SP\_2019\_53950\_77346.jpg



Overview of levee crown looking upstream towards crossings.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

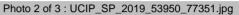
# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].

FS Date: 5/7/2019 12:42:03 PM

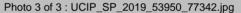
LM Start	1.76	Rating **	М	Issue No.	73 (cont)
LM End	1.76	Issue Type +	Ma	Location *	





LS view: concrete headwall with dual 60-inch crossings visible from LS.

LM Start	1.76	Rating **	М	Issue No.	73 (cont)
LM End	1.76	Issue Type +	Ma	Location *	





LS view: view of canal looking west from crossing.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

LM Start	1.76	Rating **	М	Issue No.		74	
LM End	1.76	Issue Type +	Ма	Location *			
Catagory	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.33488	86°	39.334886 °	
пеш				-121.63378	3°	-121.633783 °	
DWR ID	17011						

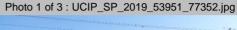
# Comment Code Inspector Comment

FS ID:53951 DS\_ID:17011 EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 12/07/2018 Encroachment Owner is Butte Water District c/o Mark Orme, District Manager, 735 Virginia Street, Gridley, CA 95948, 1-530-846-3100. Information obtained from the Levee Encroachment listing 11288.pdf obtained from SBFCA which also indicates CVFPB Permit Process - New Permit. Need to coordinate with CVFPB to determine status of permit. (O. Magana - DWR UCIP) 08/09/2017 Dual 60-inch pipes are still present--no modifications appear to have been made to this structure. No permit or owner has been identified. Need to contact owner to notify of safety issue regarding the missing covers for CMP riser. (DWR UCIP - O. Magana)08/02/2017 After reviewing record drawings it appears this crossing has remained. Project Improvements begin at Station (Sta) 1765+00 (MA0007 about LM 1.73) to Sta 2303+50 (ST0005 about LM 1.23), refer to record drawings for the Feather River West Levee Improvement Plans Station 1765+00 to 2368+26, Project D details. MA0007 project details include NO CUTOFF WALL from Sta 1765+00 (MA0007 about LM 1.73) to 1815+00 (MA0007 about LM 2.64) and LEVEE DEGRADE AND RECONSTRUCTION WITH CUT OFF WALL from Sta 1817+00 (MA0007 about LM 2.69) to Sta 2289+00, Sta 2287+00 to Sta 2290+00 (MA0007 about LM 11.60). (DWR UCIP - O. Magana)

05/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.06/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/13/2013 SBFCA project recommends replacing in accordance with title 23.05/07/2013 Same as last inspection. Recommend costructing cover to pevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA07\_2010\_a\_0060 however, no issues noted. (DWR UCIP - O. Magana) FIELD\_STRUCT\_DESC: 2 of 2: 60-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 78-inch corrugated metal pipe (CMP) well on the waterside (WS) slope. Concrete bulkheads on both ends. Reinforced concrete spillway on the WS end. (Existing 60-inch corrugated metal gravity drainage pipe crossing remained during the Feather River West Levee Improvements, Project D). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90). Sutter Butte Flood Control Agency (SBFCA) Feather River West





Overview of levee crown looking upstream towards crossings.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	04/04/2019 04/04/2019	Sterling York

Levee Project, Volume 4 of 6 (Project D) Feather River West Levee Improvement Plans Sta 1765+00 to 2368+26, 2016, Volume 4-SBFCA\_Record\_Drawings\_Project D\_2017.05.16.pdf, Drawing No. C-101].

FS Date: 5/7/2019 12:42:41 PM

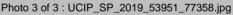
LM Start	1.76	Rating **	М	Issue No.	74 (cont)
LM End	1.76	Issue Type +	Ma	Location *	

Photo 2 of 3: UCIP\_SP\_2019\_53951\_77357.jpg



LS view: concrete headwall with dual 60-inch crossings.

LM Start	1.76	Rating **	М	Issue No.	74 (cont)
LM End	1.76	Issue Type +	Ma	Location *	





LS view: canal located on LS, photo taken from levee crown looking west.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement